Telephone Interview Agenda
Application: 10/735,938

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Differences with the cited art

Chase (Dynamic Virtual Data Clusters in a Grid Site Manager, June 22, 2003, 12th IEEE International Symposium on High Performance Distributed Computing, pp. 90-100) teaches dynamic resource management for clusters in a grid. VCM server invokes resize function every epoch seconds, which requests nodes for queued jobs and relinquishes idle nodes. Chase, § 4. Chase and Fu share authors and deal with SHARP.

Gopalan (2003/0208523) teaches static and dynamic load analysis of a network. Gopalan, abstract. Gopalan discloses analyzing historic traffic patterns of critical Service Level Agreement (SLA) to determine the load for each SLA. Gopalan, page 2, ¶ 19. Determines an overload condition based on forecast load and trend information. Gopalan, 3 ¶ 30, page 8, ¶ 181.

The invention dynamically allocates and reclaims grid computing resources. A predictive trigger event comprising an anticipated change in data flow triggers an autonomic adjustment of system resources from a client and may modify a client fee.

Proposed Amendment

1. An autonomic management apparatus for autonomic management of system resources on a grid computing system, the apparatus comprising:

a storage device storing executable code;

a processor executing the executable code, the executable code comprising:

a monitor module configured to monitor the grid computing system for a predictive trigger event comprising an anticipated change in data flow based on collected historical information;

a policy module configured to access one of a plurality of system policies, each of the plurality of system policies corresponding to an operational control parameter of a system resource comprising client processor capacity, client storage capacity, and client memory capacity allocated to ~~of~~ the grid computing system, wherein the plurality of system policies comprises a system prediction policy; and

a regulation module configured to autonomically adjust ~~regulate~~ the system resource allocated to the grid computing system in response to the anticipated change in the data flow.

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a policy module configured to access one of a plurality of system policies, each of the plurality of system policies corresponding to an operational control parameter of a system resource comprising client processor capacity, client storage capacity, and client memory capacity allocated to ~~of~~ the grid computing system, wherein the plurality of system policies comprises a system prediction policy; and

a regulation module configured to autonomically adjust ~~regulate~~ the system resource allocated to the grid computing system from a client in response to the anticipated change in the data flow and modify a client fee for participation in the grid computing system in response to the adjustment.